

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) An electronic ballast for a fluorescent lamp having a power supply, a power supply unit, a DC transformation unit 200 and a lamp driving unit, being characterized in that:

the lamp driving unit 400 comprises:

a power separator 410 for separating a DC power supplied from the DC transformation unit 200 into a lamp power and a circuit driving power;

a constant-voltage unit 420 for making the circuit driving power supplied from the power separator 410 a constant voltage;

a switching signal generator 430 that is driven by the power supplied from the constant-voltage unit 420, for generating a pulse width modulation (PWM) signal corresponding to a capacitance of a lamp connected thereto to drive lamps having different capacitances or a plurality of lamps;

a first transformer 440 for inducing the signal outputted from the switching signal generator 430 to a secondary side;

first and second field effect transistors T1 and T2 for performing a switching operation corresponding to the output signal from the secondary side of the first transformer 440, in order to generate a high voltage for turning on the fluorescent lamp;

second and third transformers 450 and 460 for generating a high voltage corresponding to the switching operation of the first and second field effect transistors T1 and T2; and

a plurality of bulbs 471 and 472 for turning on the lamp (CF lamp) using the high voltage generated by the second and third transformers 450 and 460.

2. (Currently Amended) The electronic ballast claimed in claim 1, wherein the electronic ballast is surrounded and protected by a case 1210 having a hole 1220 through which a lighting fixture can be easily is coupled at the center of the case.

3. (Canceled)

4. (Currently Amended) An electronic ballast for a fluorescent lamp having a power supply, a power supply unit and a DC transformation unit, comprising:

a DC power boosting unit for boosting a power supplied from the

DC transformation unit; and

a lamp driving unit for selectively turning on a plurality of lamps (fluorescent lamps) using the voltage outputted from the DC power boosting unit ~~The electronic ballast claimed in claim 3,~~

wherein the DC power boosting unit 800 comprises:

a constant-voltage unit 810 for making the DC power supplied from the DC transformation unit 500 a constant voltage;

a step-up controller 820 that is driven by the power supplied from the constant-voltage unit 810 to generate a switching signal for DC power step-up;

a field effect transistor T1 for performing a switching operation corresponding to the switching signal outputted from the step-up controller 820; and

a step-up transformer 830 for boosting the DC power outputted from the DC transformation unit 500 corresponding to the operation of the field effect transistor T1.

5. (Currently Amended) An electronic ballast for a fluorescent lamp having a power supply, a power supply unit and a DC transformation unit, comprising:

a DC power boosting unit for boosting a power supplied from the DC transformation unit; and

a lamp driving unit for selectively turning on a plurality of lamps
(fluorescent lamps) using the voltage outputted from the DC power
boosting unit The electronic ballast claimed in claim 3,

wherein the DC power ~~the booster~~ 800 lamp driving unit comprises:

a constant-voltage unit 910 for making the DC power supplied through an anti-backward current diode D7 a constant voltage;

a switching signal generator 920 that is driven by the power supplied from the constant-voltage unit 910, for generating a pulse width modulation (PWM) signal corresponding to a capacitance of a lamp connected thereto to drive lamps having different capacitances or a plurality of lamps;

a first transformer 931 for inducing the signal outputted from the switching signal generator 920 to a secondary side;

first and second field effect transistors T2 and T3 for performing a switching operation corresponding to the output signal from the secondary side of the first transformer 931 in order to generate a high voltage for turning on the fluorescent lamp;

second and third transformers ~~932 and 933~~ for generating a high voltage corresponding to the switching operation of the first and second field effect transistors T2 and T3; and

a plurality of bulbs ~~bulb~~ 941 and 942 for turning on the lamp (CF lamp) using the high voltage generated by the second and third

~~transformers 932 and 933.~~

6. (Currently Amended) The electronic ballast claimed in claim ~~3~~ 4, wherein the electronic ballast is surrounded and protected by a case ~~1210~~ having a hole ~~1220~~ through which a lighting fixture ~~can be easily~~ is coupled at the center of the case.

7. (New) The electronic ballast claimed in claim 5, wherein the electronic ballast is surrounded and protected by a case having a hole through which a lighting fixture is coupled at the center of the case.